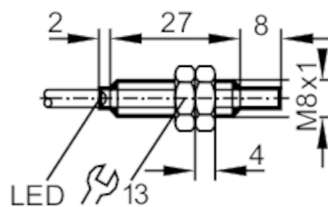




Inductive sensor

IEBC005-ASKG/0,3M/AS



Product characteristics

Electrical design	PNP/NPN
Output function	normally open
Sensing range [mm]	5
Housing	threaded type
Dimensions [mm]	M8 x 1 / L = 37

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	< 10; (only in 3-wire operation)
Protection class	III
Reverse polarity protection	yes

Outputs

Electrical design	PNP/NPN
Output function	normally open
Max. voltage drop switching output DC [V]	2.8
Minimum load current [mA]	2; (only in 2-wire operation)
Max. leakage current [mA]	0.5; (only in 2-wire operation)
Permanent current rating of switching output DC [mA]	100
Switching frequency DC [Hz]	700
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	5
Real sensing range S_r [mm]	$5 \pm 10 \%$
Operating distance [mm]	0...4.05

Accuracy / deviations

Correction factor	steel: 1 / stainless steel: 0.7 / brass: 0.5 / aluminium: 0.4 / copper: 0.3
Hysteresis [% of S_r]	1...15
Switch point drift [% of S_r]	-10...10

Operating conditions

Ambient temperature [°C]	0...60
Protection	IP 65; (with ifm socket duly screwed on: IP 67)



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Tests / approvals

EMC	EN 60947-5-2	
MTTF [years]		2988
UL approval	Ta	-25...80 °C
	Enclosure type	Type 1
	power supply	Limited Voltage/Current
	File number UL	E174191

Mechanical data

Weight [g]	24.2
Housing	threaded type
Mounting	non-flush mountable
Dimensions [mm]	M8 x 1 / L = 37
Thread designation	M8 x 1
Materials	brass white bronze coated; sensing face: LCP

Displays / operating elements

Display	switching status	1 x LED, yellow
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Accessories

Items supplied	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Cable: 0.3 m, PVC; 3 x 0.14 mm²

Connector: 1 x M8; coding: A; Locking: snap-fit

